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Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 17 , Issue: 3 , March 1995

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2 Efficient computation of adaptive threshold surfaces for image binarization*Blayvas, I.; Bruckstein, A.; Kimmel, R.;*

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Evaluation of binarization methods for document images

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Abstract:

This paper presents an evaluation of eleven locally adaptive binarization methods for gray scale images with low contrast, variable background intensity and noise. Niblack's method (1986) with the addition of the postprocessing step of Yanowitz and Bruckstein's method (1989) added performed the best and was also one of the fastest binarization methods

Index Terms:

document image processing image processing document images gray scale images locally adaptive binarization methods low contrast noise postprocessing variable background intensity

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